

- LEGEND**
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
 - EXISTING TREE LINE
 - WETLAND (SURVEYED)
 - WETLAND (PUBLIC)
 - WATERBODY (SURVEYED)
 - WATERBODY (PUBLIC)
 - ACTIVELY DISTURBED AREA (RIPARIAN IMPACT)
 - TEMPORARY ACCESS TO PROJECT DISTURBANCE (RIPARIAN IMPACT)
 - NEW UTILITY LINE DISTURBANCE (RIPARIAN IMPACT)
 - RIPARIAN BUFFER
 - 25' BUFFER FROM STREAM TOP OF BANK
 - STREAM CENTERLINE (SURVEYED)
 - STREAM CENTERLINE (PUBLIC)
 - LIMITS OF WETLAND DELINEATION
 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER
 - EXISTING CULVERT
 - CORRUGATED PLASTIC PIPE
 - CORRUGATED METAL PIPE
 - HIGH DENSITY POLYETHYLENE PIPE
 - POLYVINYL CHLORIDE PIPE
 - REINFORCED CONCRETE PIPE
 - UNKNOWN
 - EXISTING FOREIGN UTILITY EASEMENT
 - EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
 - EXISTING PIPELINE
 - EXISTING OVERHEAD LINE
 - EXISTING TREE
 - EXISTING FENCE
 - STATE OPEN WATER FLAG
 - PHOTO LOCATION (SEE REPORT)

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24G503676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

- NOTES:
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 - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
 - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.

REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

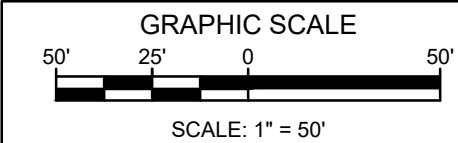
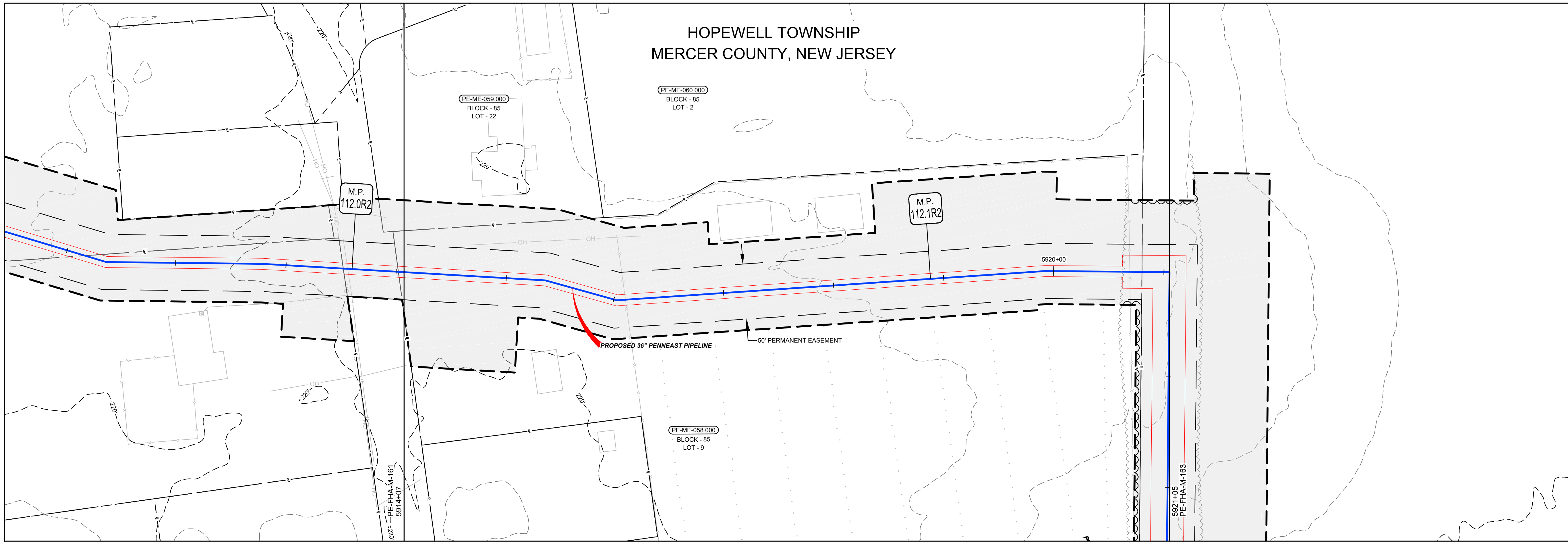
REVISIONS							APPROVALS	
NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
							RJP	7/2019
							CHECKED BY	DATE
							KEK	7/2019
							ENG. APPROVAL	DATE
							MJD	7/2019
							P.M. APPROVAL	DATE
							MW	7/2019

APPROVALS		CLIENT APPROVAL
DRAWN BY	DATE	
RJP	7/2019	
CHECKED BY	DATE	
KEK	7/2019	
ENG. APPROVAL	DATE	
MJD	7/2019	
P.M. APPROVAL	DATE	
MW	7/2019	

PREPARED FOR
PennEast
PIPELINE

PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 111.9R2 - MP 112.0R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-161	0



- LEGEND**
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
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 - RIPARIAN BUFFER
 - 25' BUFFER FROM STREAM TOP OF BANK
 - STREAM CENTERLINE (SURVEYED)
 - STREAM CENTERLINE (PUBLIC)
 - LIMITS OF WETLAND DELINEATION
 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER
(LB-HU-A001.000)
BLOCK - 1
LOT - 10.00
 - EXISTING CULVERT
 - CPP CORROGATED PLASTIC PIPE
 - CMP CORROGATED METAL PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - RCP REINFORCED CONCRETE PIPE
 - UNK UNKNOWN
 - EXISTING FOREIGN UTILITY EASEMENT
 - 1260' EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
 - EXISTING PIPELINE
 - OH EXISTING OVERHEAD LINE
 - EXISTING TREE
 - EXISTING FENCE
 - SOW_FLAG_NO STATE OPEN WATER FLAG
 - PHOTO LOCATION (SEE REPORT)

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

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REVISIONS							APPROVALS	
NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD		RJP	7/2019
							CHECKED BY	DATE
							KEK	7/2019
							ENG. APPROVAL	DATE
							MJD	7/2019
							P.M. APPROVAL	DATE
							MW	7/2019

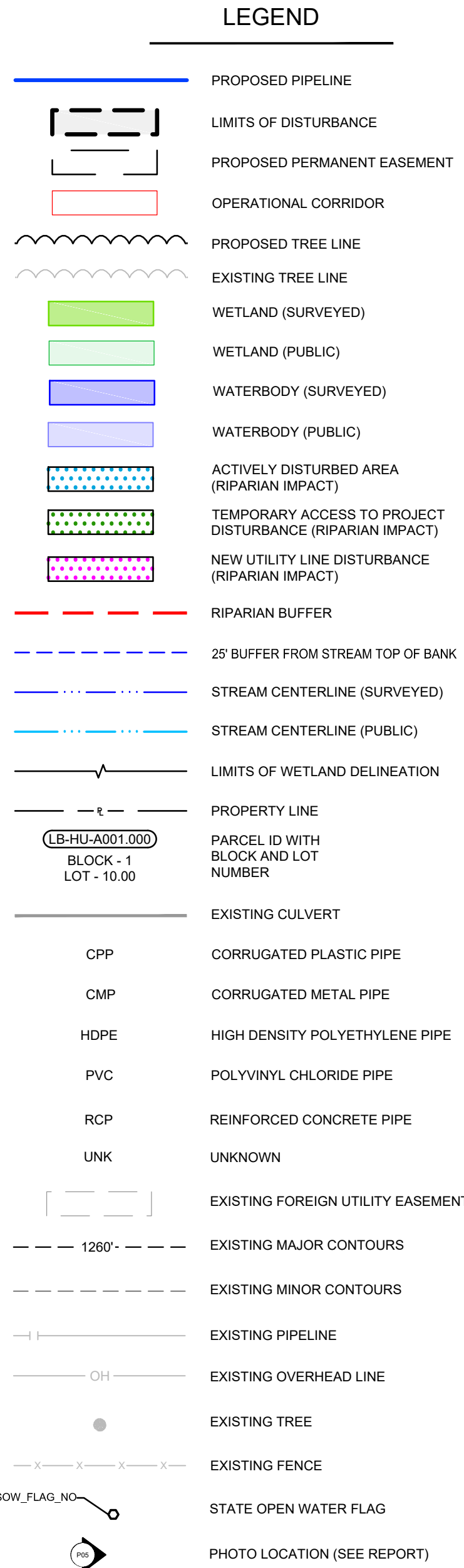
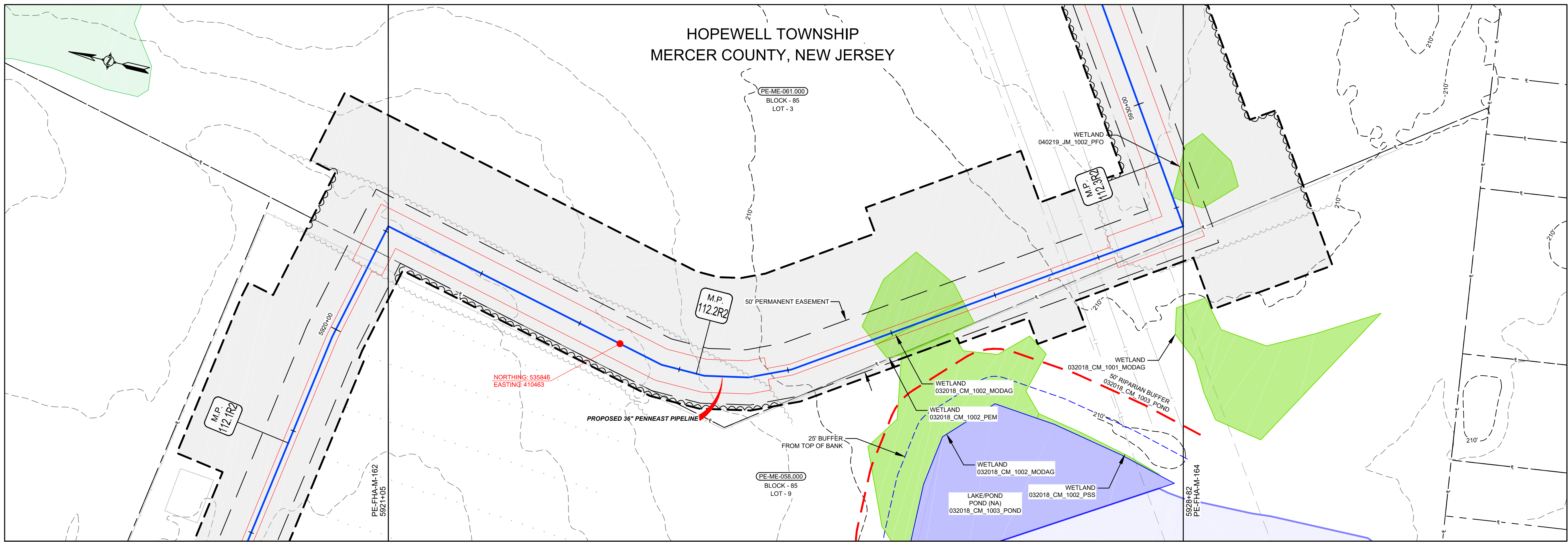
APPROVALS		CLIENT APPROVAL
DRAWN BY	DATE	
RJP	7/2019	
CHECKED BY	DATE	
KEK	7/2019	
ENG. APPROVAL	DATE	
MJD	7/2019	
P.M. APPROVAL	DATE	
MW	7/2019	

CLIENT APPROVAL	

PREPARED FOR
PennEast
PIPELINE

PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 112.0R2 - MP 112.1R2		
SCALE 1" = 50'	DRAWING NO. PE-FHA-M-162	REVISION 0



NOTES:

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		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

REVISIONS							APPROVALS	
NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
			RJP	KEK	MJD		RJP	7/2019
							CHECKED BY	DATE
							KEK	7/2019
							ENG. APPROVAL	DATE
							MJD	7/2019
							P.M. APPROVAL	DATE
							MW	7/2019

APPROVALS		CLIENT APPROVAL
DRAWN BY	DATE	
RJP	7/2019	
CHECKED BY	DATE	
KEK	7/2019	
ENG. APPROVAL	DATE	
MJD	7/2019	
P.M. APPROVAL	DATE	
MW	7/2019	

APPROVALS	
CLIENT APPROVAL	
DATE	

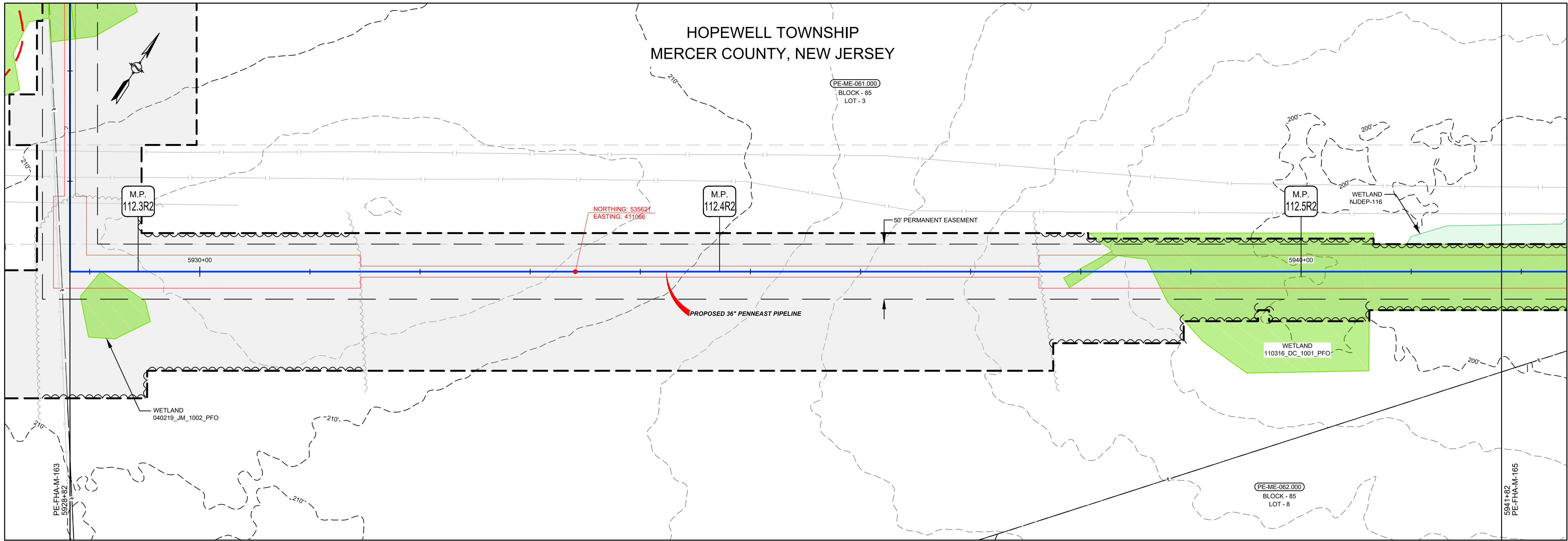
PREPARED FOR
PennEast
PIPELINE

PREPARED BY
M M
MOTT
MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

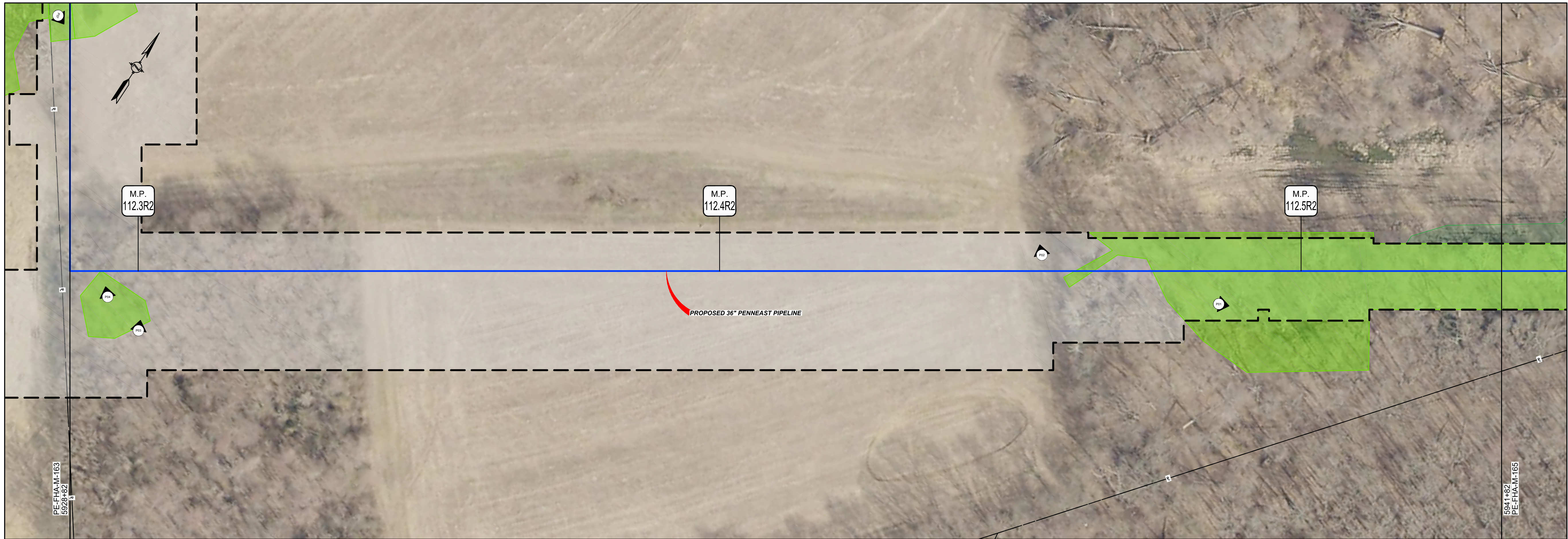
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FLOOD HAZARD AREA PERMIT PLAN
MP 112.1R2 - MP 112.3R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-163	0



- LEGEND
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
 - EXISTING TREE LINE
 - WETLAND (SURVEYED)
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 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER
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LOT - 10.00
 - EXISTING CULVERT
 - CPP CORRUGATED PLASTIC PIPE
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 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - RCP REINFORCED CONCRETE PIPE
 - UNK UNKNOWN
 - EXISTING FOREIGN UTILITY EASEMENT
 - 1260' - - - - - EXISTING MAJOR CONTOURS
 - - - - - EXISTING MINOR CONTOURS
 - - - - - EXISTING PIPELINE
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 - - - - - EXISTING FENCE
 - SOW_FLAG_NO STATE OPEN WATER FLAG
 - PHOTO LOCATION (SEE REPORT)



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PROFESSIONAL ENGINEER
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SIGNATURE DATE

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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS				CLIENT APPROVAL	
DRAWN BY	DATE	DATE	DATE	DATE	DATE
RJP	7/2019				
CHECKED BY	DATE				
KEK	7/2019				
ENG. APPROVAL	DATE				
MJD	7/2019				
P.M. APPROVAL	DATE				
MW	7/2019				

PREPARED BY		CLIENT APPROVAL	
MOTT MACDONALD		DATE	
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830		7/2019	
CERTIFICATE NO. 24GA28016600			

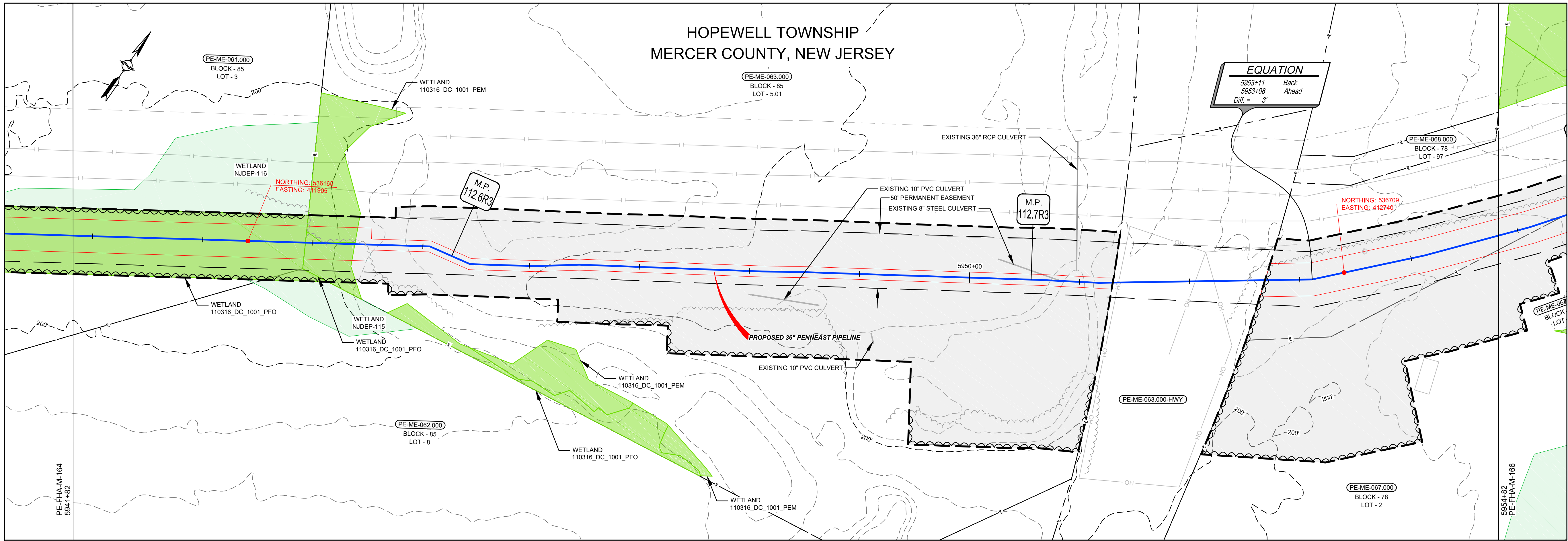
PREPARED FOR

PennEast
PIPELINE

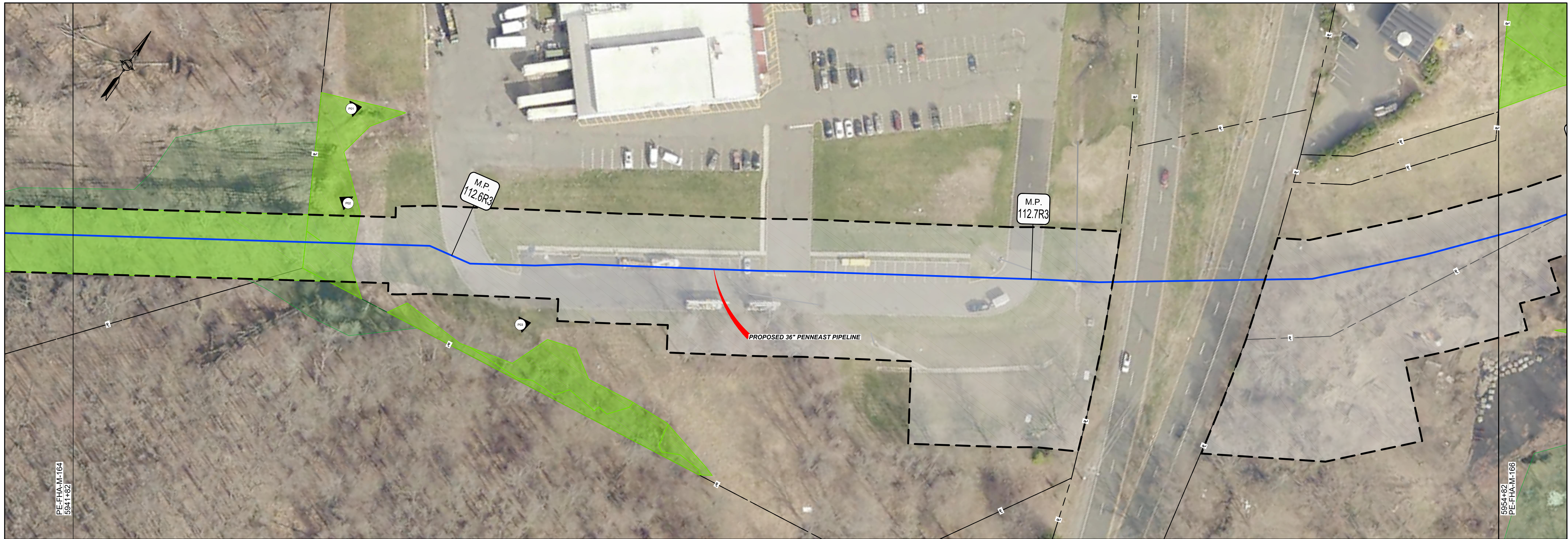
PREPARED BY **M M**
MOTT MACDONALD

111 WOOD AVENUE SOUTH, ISELIN, NJ 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 112.3R2 - MP 112.5R2		
SCALE 1" = 50'	DRAWING NO. PE-FHA-M-164	REVISION 0



- LEGEND**
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
 - EXISTING TREE LINE
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 - RIPARIAN BUFFER
 - 25' BUFFER FROM STREAM TOP OF BANK
 - STREAM CENTERLINE (SURVEYED)
 - STREAM CENTERLINE (PUBLIC)
 - LIMITS OF WETLAND DELINEATION
 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER
 - EXISTING CULVERT
 - CPP CORRUGATED PLASTIC PIPE
 - CMP CORRUGATED METAL PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - RCP REINFORCED CONCRETE PIPE
 - UNK UNKNOWN
 - EXISTING FOREIGN UTILITY EASEMENT
 - EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
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 - EXISTING OVERHEAD LINE
 - EXISTING TREE
 - EXISTING FENCE
 - STATE OPEN WATER FLAG
 - PHOTO LOCATION (SEE REPORT)



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		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

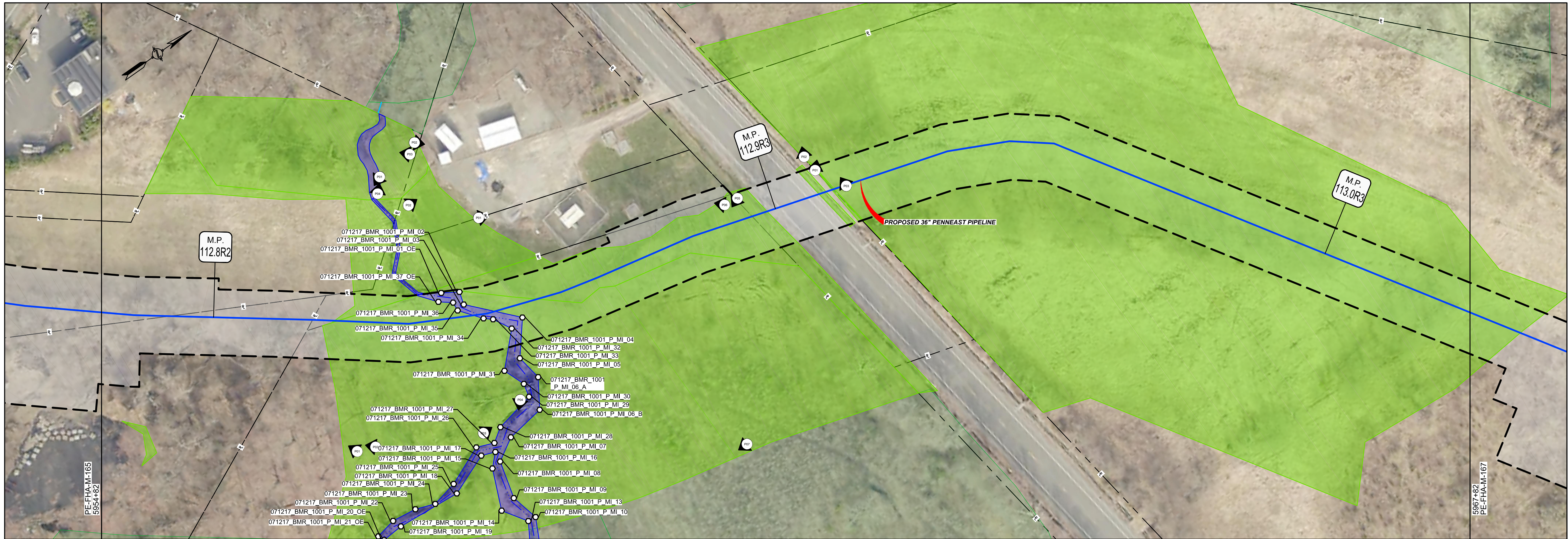
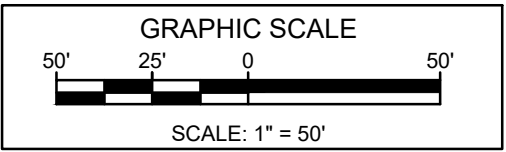
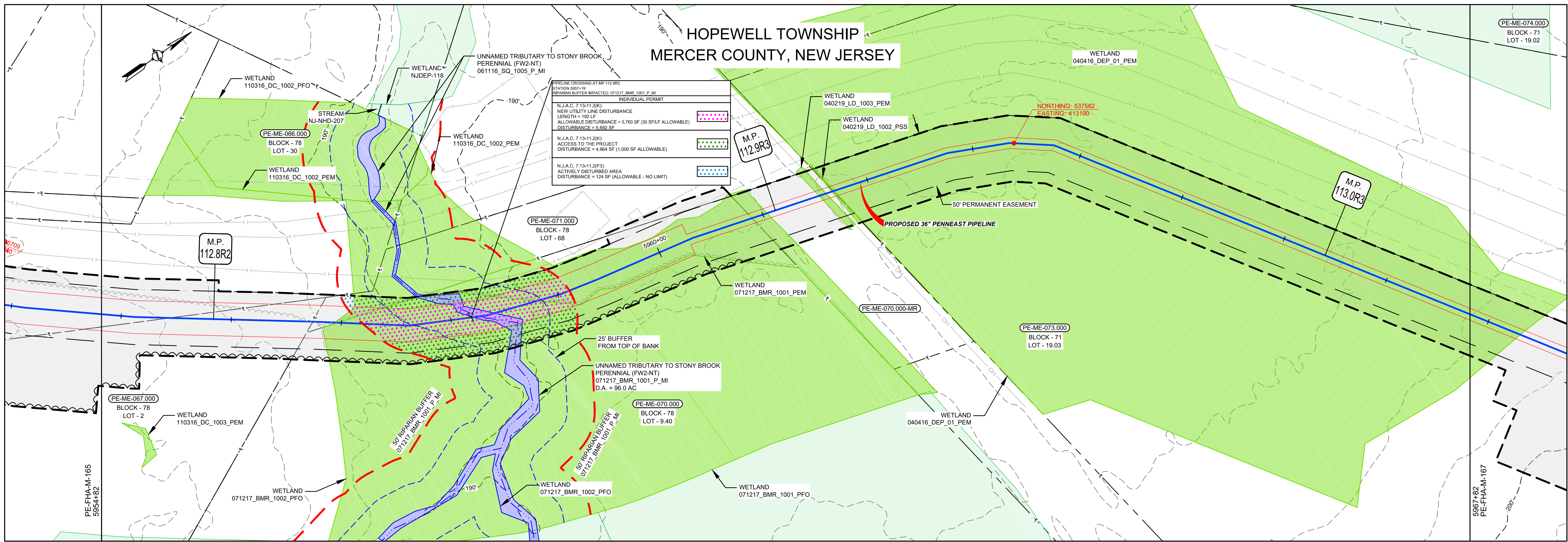
REVISIONS							APPROVALS	
NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
							RJP	7/2019
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MW	7/2019	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 112.5R2 - MP 112.8R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-165	0



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REFERENCE DRAWINGS		NO.		REVISIONS		DATE		DRAWN		CK		APPR	
DWG. NO.	TITLE												
PE-SSC-M-112.8R2	SUPPLEMENTAL STREAM CROSSING DETAIL	0		ISSUED FOR NJDEP PERMIT		7/2019		RJP		KEK		MJD	

REVISIONS		NO.		REVISIONS		DATE		DRAWN		CK		APPR	

APPROVALS		DATE	
DRAWN BY	RJP	7/2019	
CHECKED BY	KEK	7/2019	
ENG. APPROVAL	MJD	7/2019	
P.M. APPROVAL	MW	7/2019	

CLIENT APPROVAL		DATE	

PREPARED FOR	PennEast PIPELINE
PREPARED BY	MOTT MACDONALD
	111 WOOD AVENUE SOUTH, ISELIN, NJ 08850
	CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 112.8R2 - MP 113.0R3		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-166	0

- LEGEND
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 - LIMITS OF DISTURBANCE
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 - - - - - EXISTING OVERHEAD LINE
 - - - - - EXISTING TREE
 - - - - - EXISTING FENCE
 - - - - - STATE OPEN WATER FLAG
 - - - - - PHOTO LOCATION (SEE REPORT)

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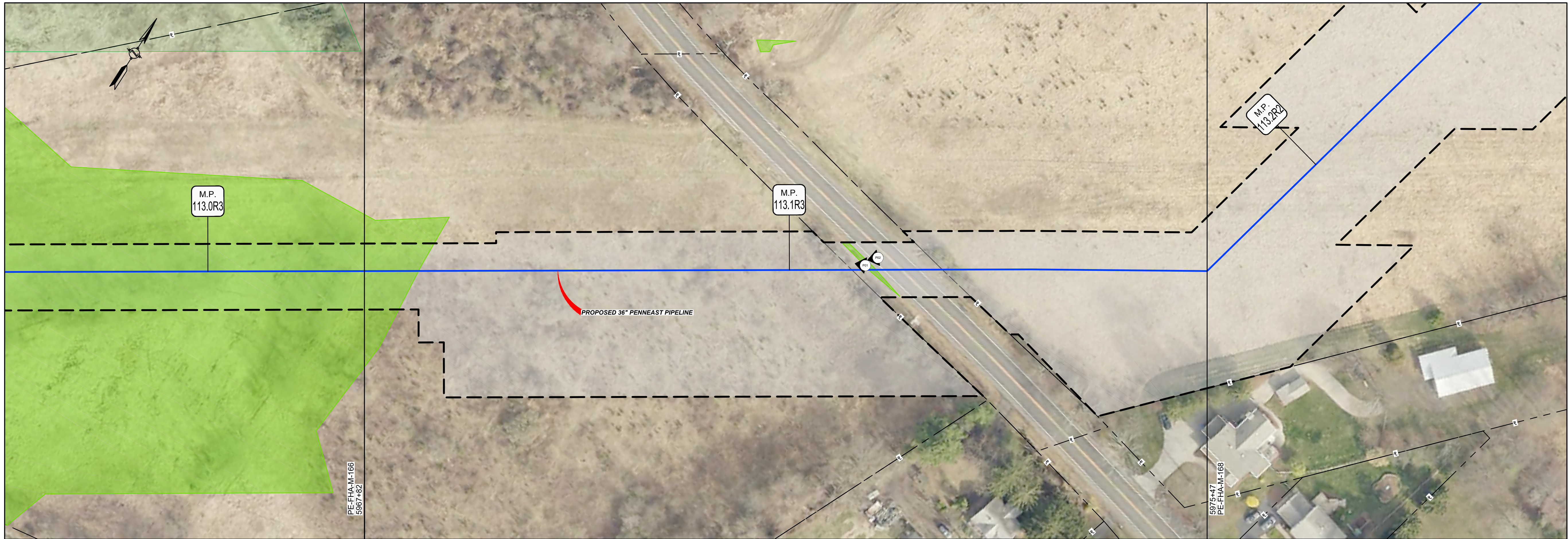
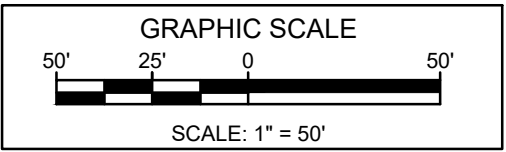
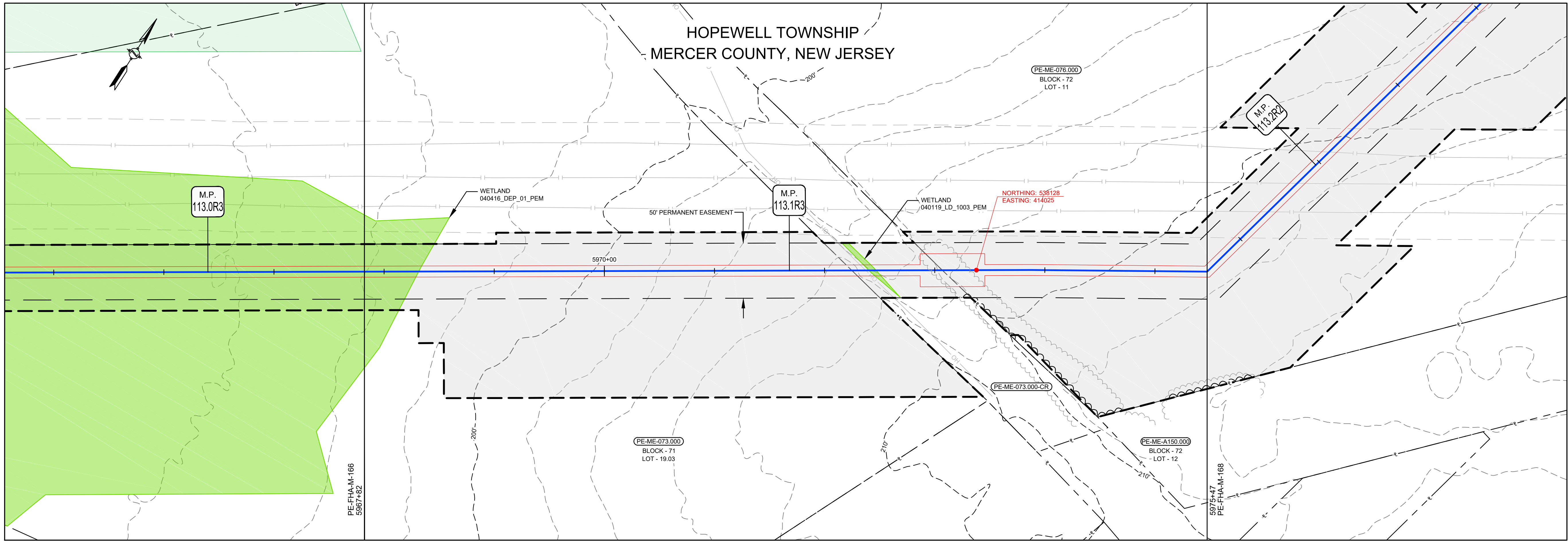
THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE



- LEGEND**
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
 - EXISTING TREE LINE
 - WETLAND (SURVEYED)
 - WETLAND (PUBLIC)
 - WATERBODY (SURVEYED)
 - WATERBODY (PUBLIC)
 - ACTIVELY DISTURBED AREA (RIPARIAN IMPACT)
 - TEMPORARY ACCESS TO PROJECT DISTURBANCE (RIPARIAN IMPACT)
 - NEW UTILITY LINE DISTURBANCE (RIPARIAN IMPACT)
 - RIPARIAN BUFFER
 - 25' BUFFER FROM STREAM TOP OF BANK
 - STREAM CENTERLINE (SURVEYED)
 - STREAM CENTERLINE (PUBLIC)
 - LIMITS OF WETLAND DELINEATION
 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER
 - EXISTING CULVERT
 - CORRUGATED PLASTIC PIPE
 - CORRUGATED METAL PIPE
 - HDPPE
 - POLYVINYL CHLORIDE PIPE
 - REINFORCED CONCRETE PIPE
 - UNKNOWN
 - EXISTING FOREIGN UTILITY EASEMENT
 - 1260' - - - - -
 - EXISTING MINOR CONTOURS
 - EXISTING PIPELINE
 - EXISTING OVERHEAD LINE
 - EXISTING TREE
 - EXISTING FENCE
 - STATE OPEN WATER FLAG
 - PHOTO LOCATION (SEE REPORT)

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 - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.

REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

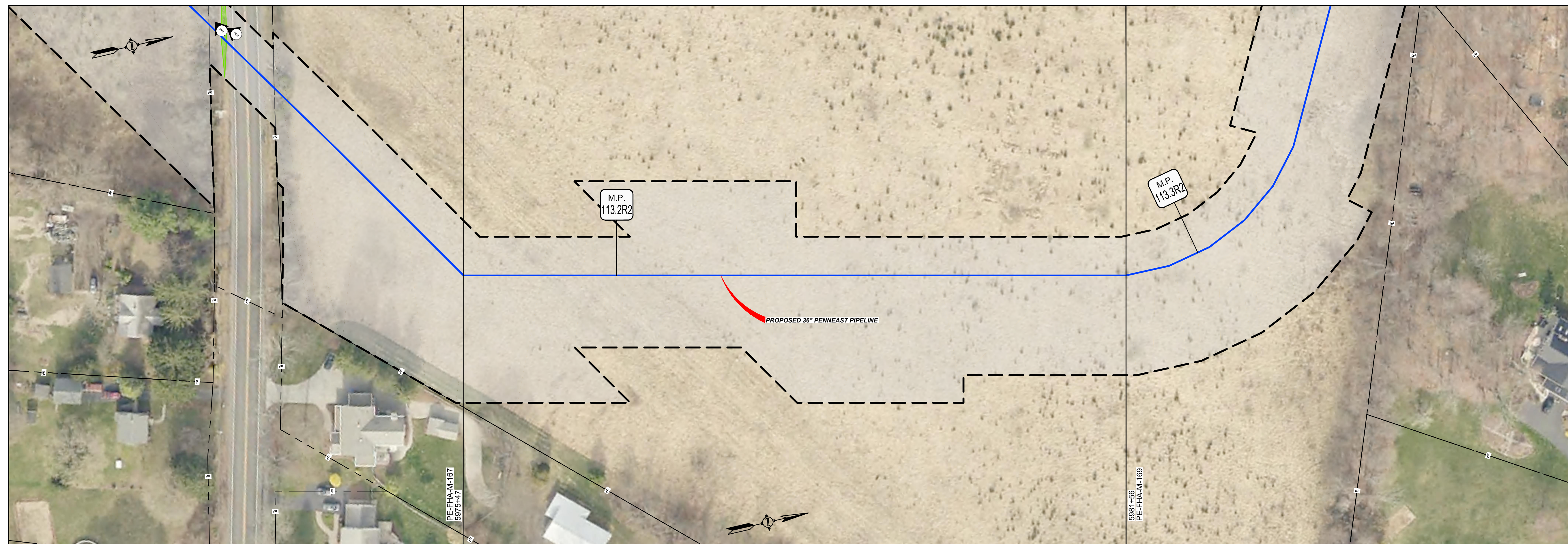
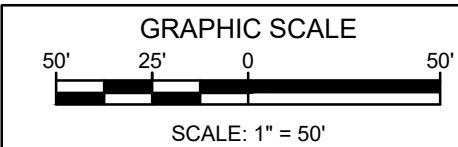
APPROVALS				CLIENT APPROVAL	
DRAWN BY	DATE	SIGNATURE	DATE	DATE	DATE
RJP	7/2019				
CHECKED BY	DATE	SIGNATURE	DATE	DATE	DATE
KEK	7/2019				
ENG. APPROVAL	DATE	SIGNATURE	DATE	DATE	DATE
MJD	7/2019				
P.M. APPROVAL	DATE	SIGNATURE	DATE	DATE	DATE
MW	7/2019				

APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE	SIGNATURE	DATE
RJP	7/2019		
CHECKED BY	DATE	SIGNATURE	DATE
KEK	7/2019		
ENG. APPROVAL	DATE	SIGNATURE	DATE
MJD	7/2019		
P.M. APPROVAL	DATE	SIGNATURE	DATE
MW	7/2019		

PREPARED FOR
PennEast
PIPELINE


PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 113.0R3 - MP 113.2R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-167	0

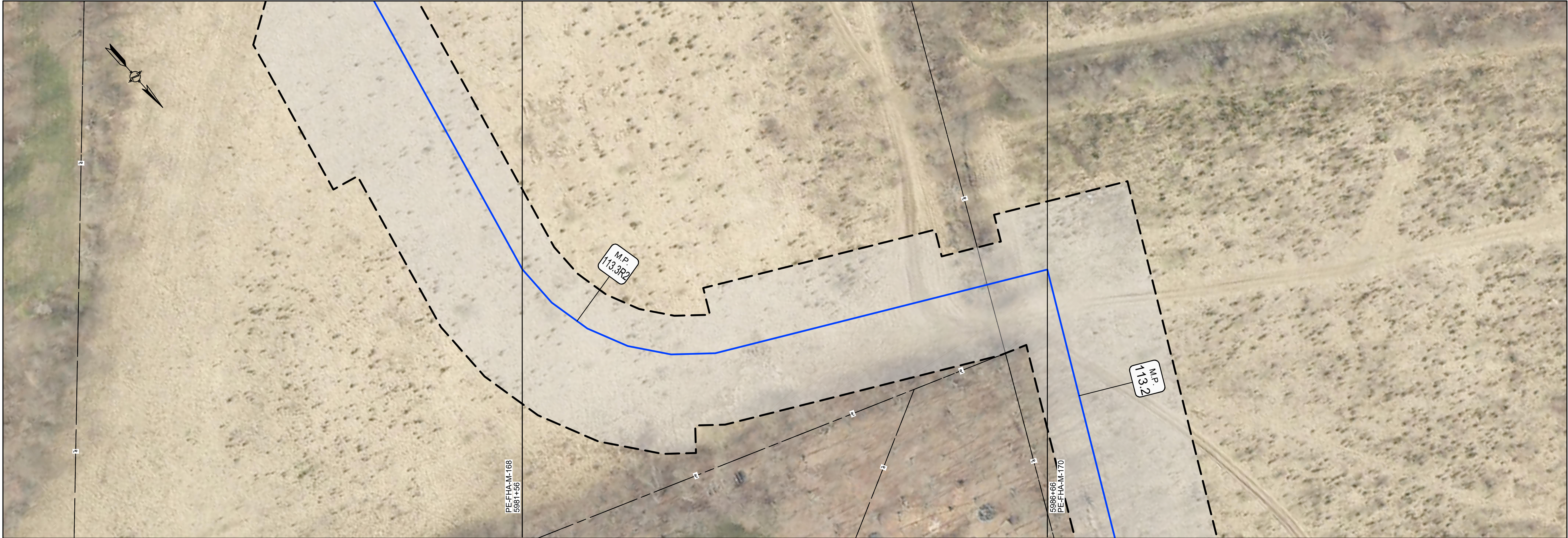
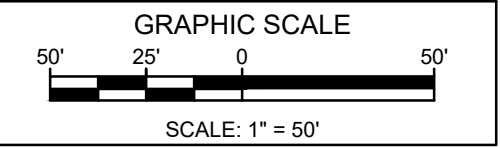
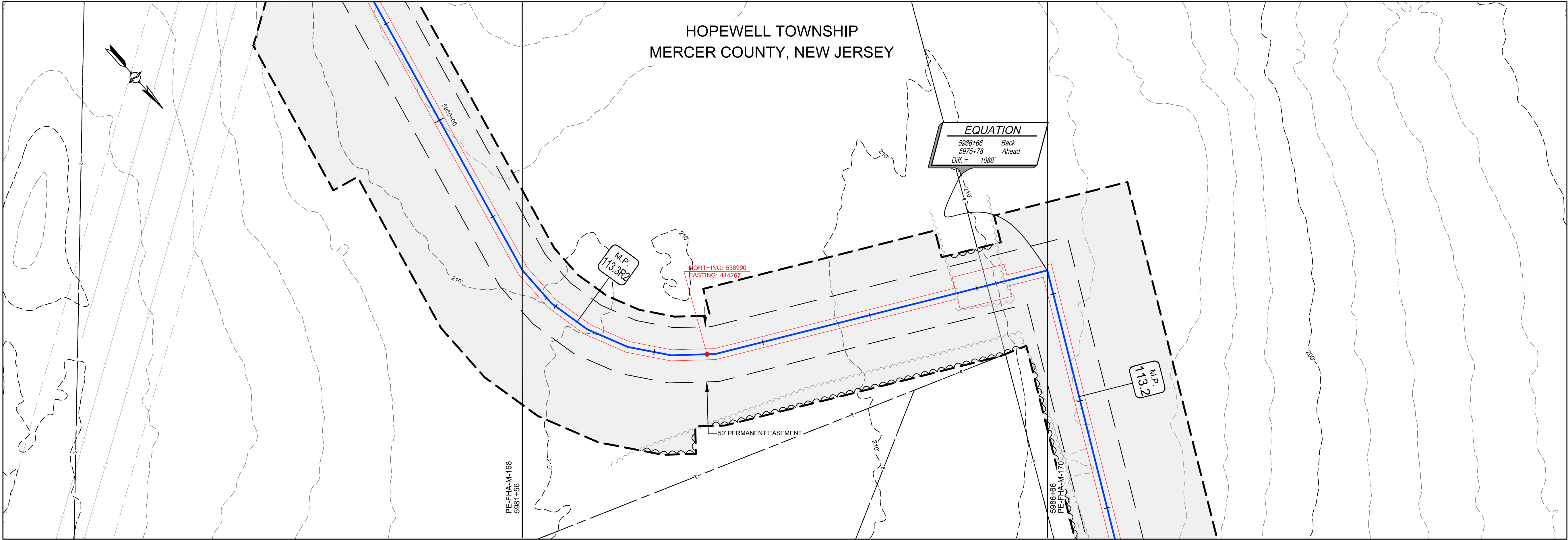


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[illegible]

PREPARED FOR		
PREPARED BY	M M	MOTT MACDONALD 111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 113.2R2 - MP 113.3R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-168	0



- LEGEND
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
 - EXISTING TREE LINE
 - WETLAND (SURVEYED)
 - WETLAND (PUBLIC)
 - WATERBODY (SURVEYED)
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 - TEMPORARY ACCESS TO PROJECT DISTURBANCE (RIPARIAN IMPACT)
 - NEW UTILITY LINE DISTURBANCE (RIPARIAN IMPACT)
 - RIPARIAN BUFFER
 - 25' BUFFER FROM STREAM TOP OF BANK
 - STREAM CENTERLINE (SURVEYED)
 - STREAM CENTERLINE (PUBLIC)
 - LIMITS OF WETLAND DELINEATION
 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER (LB-HU-A001.000 BLOCK - 1 LOT - 10.00)
 - EXISTING CULVERT
 - CORRUGATED PLASTIC PIPE (CPP)
 - CORRUGATED METAL PIPE (CMP)
 - HIGH DENSITY POLYETHYLENE PIPE (HDPE)
 - POLYVINYL CHLORIDE PIPE (PVC)
 - REINFORCED CONCRETE PIPE (RCP)
 - UNKNOWN (UNK)
 - EXISTING FOREIGN UTILITY EASEMENT
 - EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
 - EXISTING PIPELINE
 - EXISTING OVERHEAD LINE (OH)
 - EXISTING TREE
 - EXISTING FENCE
 - STATE OPEN WATER FLAG (SOW_FLAG_NO)
 - PHOTO LOCATION (SEE REPORT)

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

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MICHAEL J. DENICHILO
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N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

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REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

REVISIONS							APPROVALS	
NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD		RJP	7/2019
							CHECKED BY	DATE
							KEK	7/2019
							ENG. APPROVAL	DATE
							MJD	7/2019
							P.M. APPROVAL	DATE
							MW	7/2019

APPROVALS		CLIENT APPROVAL
DRAWN BY	DATE	
RJP	7/2019	
CHECKED BY	DATE	
KEK	7/2019	
ENG. APPROVAL	DATE	
MJD	7/2019	
P.M. APPROVAL	DATE	
MW	7/2019	

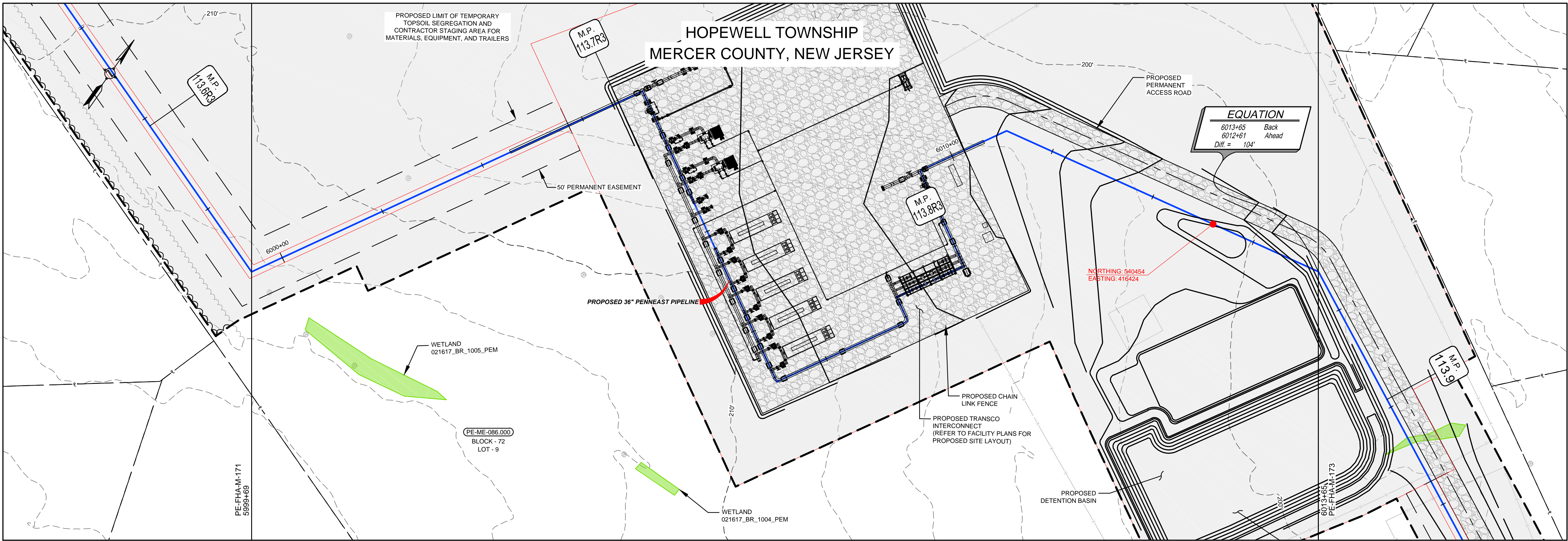
CLIENT APPROVAL	

PREPARED FOR

PennEast
PIPELINE

PREPARED BY **M M**
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 113.3R2 - MP 113.2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-168	0



- LEGEND
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
 - EXISTING TREE LINE
 - WETLAND (SURVEYED)
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 - 25' BUFFER FROM STREAM TOP OF BANK
 - STREAM CENTERLINE (SURVEYED)
 - STREAM CENTERLINE (PUBLIC)
 - LIMITS OF WETLAND DELINEATION
 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER
(LB-HU-A001.000)
BLOCK - 1
LOT - 10.00
 - EXISTING CULVERT
 - CPP CORRUGATED PLASTIC PIPE
 - CMP CORRUGATED METAL PIPE
 - HDPE HIGH DENSITY POLYETHYLENE PIPE
 - PVC POLYVINYL CHLORIDE PIPE
 - RCP REINFORCED CONCRETE PIPE
 - UNK UNKNOWN
 - EXISTING FOREIGN UTILITY EASEMENT
 - 1260' - - - - - EXISTING MAJOR CONTOURS
 - - - - - EXISTING MINOR CONTOURS
 - - - - - EXISTING PIPELINE
 - - - - - EXISTING OVERHEAD LINE
 - - - - - EXISTING TREE
 - - - - - EXISTING FENCE
 - SOW_FLAG_NO - - - - - STATE OPEN WATER FLAG
 - - - - - PHOTO LOCATION (SEE REPORT)

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR
027-03-03-004	* TRANSOCO INTERCONNECT	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS				CLIENT APPROVAL	
DRAWN BY	DATE	SIGNATURE	DATE	DATE	DATE
RJP	7/2019				
CHECKED BY	DATE	SIGNATURE	DATE	DATE	DATE
KEK	7/2019				
ENG. APPROVAL	DATE	SIGNATURE	DATE	DATE	DATE
MJD	7/2019				
P.M. APPROVAL	DATE	SIGNATURE	DATE	DATE	DATE
MW	7/2019				

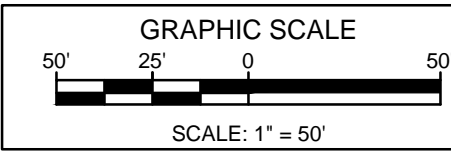
PREPARED FOR
PennEast
PIPELINE

PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT


**PENNEAST PIPELINE
FLOOD HAZARD AREA PERMIT PLAN
MP 113.6R3 - MP 113.9**

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-172	0



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[illegible]

<p>PREPARED FOR</p> 	
<p>PREPARED BY</p>	<p>M M MOTT MACDONALD</p>
<p>111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016600</p>	


PENNEAST PIPELINE PROJECT		
<p align="center">PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 113.9 - MP 114.0R3</p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-173	0

LEGEND

- | | |
|--|--|
| | PROPOSED PIPELINE |
| | LIMITS OF DISTURBANCE |
| | PROPOSED PERMANENT EASEMENT |
| | OPERATIONAL CORRIDOR |
| | PROPOSED TREE LINE |
| | EXISTING TREE LINE |
| | WETLAND (SURVEYED) |
| | WETLAND (PUBLIC) |
| | WATERBODY (SURVEYED) |
| | WATERBODY (PUBLIC) |
| | ACTIVELY DISTURBED AREA
(RIPARIAN IMPACT) |
| | TEMPORARY ACCESS TO PROJECT
DISTURBANCE (RIPARIAN IMPACT) |
| | NEW UTILITY LINE DISTURBANCE
(RIPARIAN IMPACT) |
| | RIPARIAN BUFFER |
| | 25' BUFFER FROM STREAM TOP OF BANK |
| | STREAM CENTERLINE (SURVEYED) |
| | STREAM CENTERLINE (PUBLIC) |
| | LIMITS OF WETLAND DELINEATION |
| | PROPERTY LINE |
| | PARCEL ID WITH
BLOCK AND LOT
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| | EXISTING CULVERT |
| | CORRUGATED PLASTIC PIPE |
| | CORRUGATED METAL PIPE |
| | HIGH DENSITY POLYETHYLENE PIPE |
| | POLYVINYL CHLORIDE PIPE |
| | REINFORCED CONCRETE PIPE |
| | UNKNOWN |
| | EXISTING FOREIGN UTILITY EASEMENT |
| | EXISTING MAJOR CONTOURS |
| | EXISTING MINOR CONTOURS |
| | EXISTING PIPELINE |
| | EXISTING OVERHEAD LINE |
| | EXISTING TREE |
| | EXISTING FENCE |
| | STATE OPEN WATER FLAG |
| | PHOTO LOCATION (SEE REPORT) |

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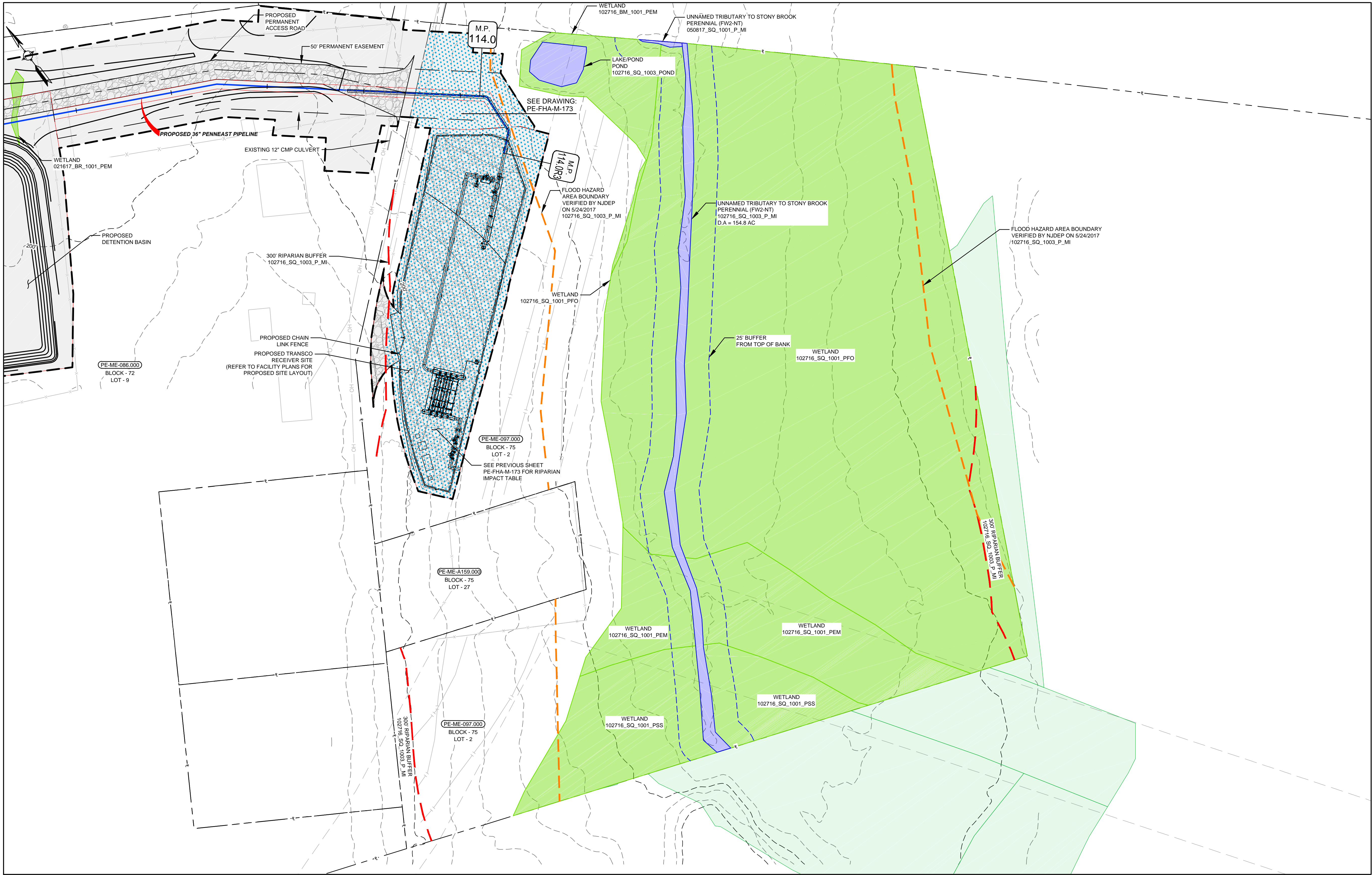
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PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

 08/01/2019

SIGNATURE DATE

HOPEWELL TOWNSHIP
MERCER COUNTY, NEW JERSEY



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
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- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (e.g., LB-HU-A001.000 BLOCK - 1 LOT - 10.00)
- EXISTING CULVERT
- CPP CORRUGATED PLASTIC PIPE
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- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
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- EXISTING TREE
- EXISTING FENCE
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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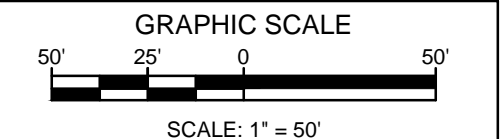
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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
027A-03-003	* TRANSOCO RECEIVER SITE	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD		RJP	7/2019
									CHECKED BY	DATE
									KEK	7/2019
									ENG. APPROVAL	DATE
									MJD	7/2019
									P.M. APPROVAL	DATE
									MW	7/2019

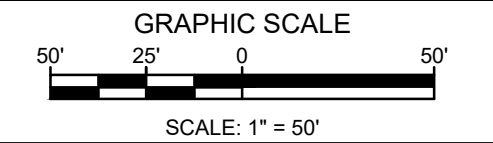
PREPARED FOR

PennEast
PIPELINE

PREPARED BY **M M**
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 114.0R3		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-174.1	0

HOPEWELL TOWNSHIP
MERCER COUNTY, NEW JERSEY



- LEGEND**
- PROPOSED PIPELINE
 - LIMITS OF DISTURBANCE
 - PROPOSED PERMANENT EASEMENT
 - OPERATIONAL CORRIDOR
 - PROPOSED TREE LINE
 - EXISTING TREE LINE
 - WETLAND (SURVEYED)
 - WETLAND (PUBLIC)
 - WATERBODY (SURVEYED)
 - WATERBODY (PUBLIC)
 - ACTIVELY DISTURBED AREA (RIPARIAN IMPACT)
 - TEMPORARY ACCESS TO PROJECT DISTURBANCE (RIPARIAN IMPACT)
 - NEW UTILITY LINE DISTURBANCE (RIPARIAN IMPACT)
 - RIPARIAN BUFFER
 - 25' BUFFER FROM STREAM TOP OF BANK
 - STREAM CENTERLINE (SURVEYED)
 - STREAM CENTERLINE (PUBLIC)
 - LIMITS OF WETLAND DELINEATION
 - PROPERTY LINE
 - PARCEL ID WITH BLOCK AND LOT NUMBER (e.g., LB-HU-A001.000, BLOCK - 1, LOT - 10.00)
 - EXISTING CULVERT
 - CPP: CORRUGATED PLASTIC PIPE
 - CMP: CORRUGATED METAL PIPE
 - HDPE: HIGH DENSITY POLYETHYLENE PIPE
 - PVC: POLYVINYL CHLORIDE PIPE
 - RCP: REINFORCED CONCRETE PIPE
 - UNK: UNKNOWN
 - EXISTING FOREIGN UTILITY EASEMENT
 - 1260' - EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
 - EXISTING PIPELINE
 - OH: EXISTING OVERHEAD LINE
 - EXISTING TREE
 - EXISTING FENCE
 - SOW_FLAG_NO: STATE OPEN WATER FLAG
 - PHOTO LOCATION (SEE REPORT)

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

Thomas D. Strong 08/01/2019
SIGNATURE DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

Michael J. Denichilo 08/01/2019
SIGNATURE DATE

- NOTES:**
- UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
 - THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
 - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
 - RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULUS, SOKOLOWSKI AND SARTOR (PS&S).
 - CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.

REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
027A-03-03-003	* TRANSOCO RECEIVER SITE	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS						
DRAWN BY	DATE					
RJP	7/2019					
CHECKED BY	DATE					
KEK	7/2019					
ENG. APPROVAL	DATE					
MJD	7/2019					
P.M. APPROVAL	DATE					
MW	7/2019					

APPROVALS			
DRAWN BY	DATE		
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830 CERTIFICATE NO. 24GA28016600	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE FLOOD HAZARD AREA PERMIT PLAN MP 114.0R3		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FHA-M-174.2	0